

CLAIMS

1. A sensor-equipped seal device comprising a fixed-side seal member having a metal core fixedly fitted to a fixed member and a sensor attached to the metal core by a molded resin, and
5 a rotation-side seal member having a slinger fixedly fitted to a rotating member and a pulser secured to the slinger, the seal device being characterized in that the metal core of the fixed-side seal member has a cylindrical portion fixedly fitted to the fixed member, and a flange extending from an
10 axially inner end of the cylindrical portion toward the rotation-side seal member so that no metal portion exists between the sensor and the pulser, the flange being provided with an elastic seal slidable in contact with the rotation-side seal member.
- 15 2. A sensor-equipped seal device according to claim 1 wherein the metal core of the fixed-side seal member is provided by insert molding so that an outer end of the cylindrical portion is positioned within the resin.
- 20 3. A sensor-equipped seal device according to claim 1 or 2 wherein the rotation-side seal member is provided with a lip support comprising a cylinder fixedly fitted to the slinger and a flange integral with the cylinder and axially outwardly opposed to the pulser from an axially inward position for supporting a lip portion of the elastic seal.
- 25 4. A rolling bearing device comprising a fixed ring, a rotatable ring, rolling bodies arranged between the two rings, a fixed-side seal member provided on at least one end of the fixed ring, and a rotation-side seal member provided on the rotatable ring so as to be opposed to the fixed-side seal member,

the rolling bearing device being characterized in that the fixed-side seal member has a metal core fixedly fitted to the fixed ring and a sensor attached to the metal core by a molded resin, the rotation-side seal member having a slinger fixedly
5 fitted to the rotatable ring and a pulser secured to the slinger, the metal core of the fixed-side seal member having a cylindrical portion fixedly fitted to the fixed ring and a flange extending from an axially inner end of the cylindrical portion toward the rotation-side seal member so that no metal
10 portion exists between the sensor and the pulser, the flange being provided with an elastic seal slidable in contact with the rotation-side seal member.

5. A rolling bearing device according to claim 4 wherein the metal core of the fixed-side seal member is provided by
15 insert molding so that an outer end of the cylindrical portion is positioned within the resin.

6. A rolling bearing device according to claim 4 or 5 wherein the rotation-side seal member is provided with a lip support comprising a cylinder fixedly fitted to the slinger
20 and a flange integral with the cylinder and axially outwardly opposed to the pulser from an axially inward position for supporting a lip portion of the elastic seal.

7. A rolling bearing device according to any one of claims 4 to 6 which is characterized in that the fixed ring is a
25 body-side raceway member having a portion to be attached to a vehicle body, the rotatable ring serving as a wheel-side raceway member having a wheel attaching portion, the bearing device being usable as a motor vehicle hub unit.